

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P936258

Luminaire Tested: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936258
REPORT IS A COMBINATION OF REPORTS P933437 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

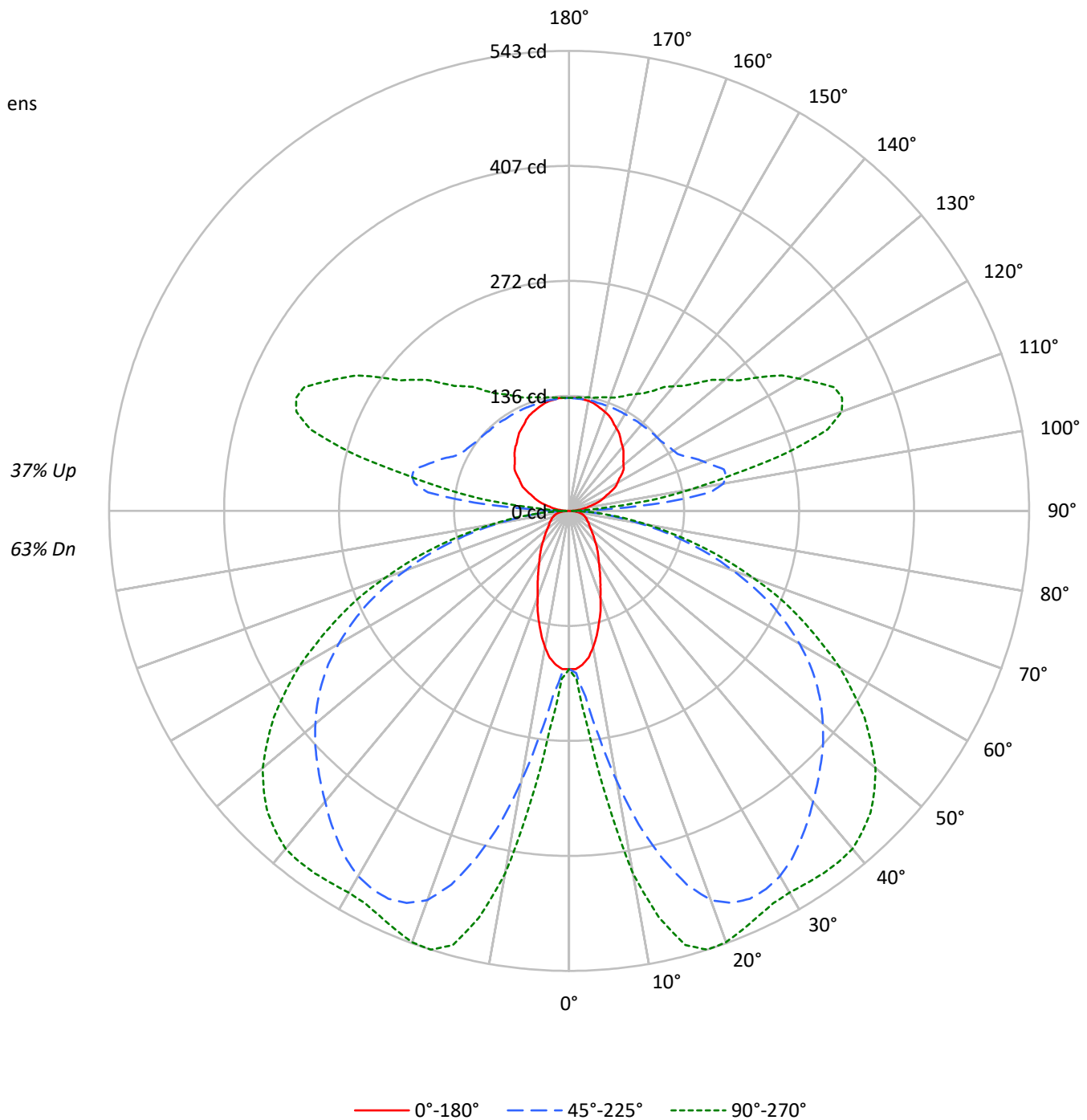
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2311.7 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P936258
CATALOG NUMBER: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P936258

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	29
5	68	56	47	41	64	52	45	39	46	40	35	40	35	31	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1733	1733	1733
5°	1692	2002	2330
10°	1533	2916	3863
15°	1302	3806	4664
20°	1059	4408	4754
25°	881	4609	4657
30°	743	4635	4648
35°	655	4555	4768
40°	571	4451	4892
45°	515	4373	4911
50°	472	4303	4830
55°	450	4203	4616
60°	459	4013	4278
65°	475	3725	3813
70°	503	3243	3222
75°	551	2636	2515
80°	590	1823	1694
85°	497	964	866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	1.0
10°-20°	107.1	4.6
20°-30°	187.3	8.1
30°-40°	241.1	10.4
40°-50°	269.3	11.7
50°-60°	258.0	11.2
60°-70°	204.4	8.8
70°-80°	120.2	5.2
80°-90°	33.9	1.5
90°-100°	65.1	2.8
100°-110°	171.2	7.4
110°-120°	177.5	7.7
120°-130°	142.4	6.2
130°-140°	111.7	4.8
140°-150°	85.8	3.7
150°-160°	61.8	2.7
160°-170°	37.8	1.6
170°-180°	12.8	0.6
0°-30°	318.6	13.8
0°-40°	559.7	24.2
0°-60°	1087.0	47.0
0°-90°	1445.5	62.5
90°-120°	413.9	17.9
90°-150°	753.8	32.6
90°-180°	866.0	37.5
0°-180°	2311.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	187	187	187	187	187	
5°	182	195	220	249	258	17
15°	136	252	424	514	530	38
25°	87	285	505	527	528	40
35°	59	273	476	503	522	37
45°	40	217	420	482	503	31
55°	29	138	357	414	426	26
65°	23	73	265	298	302	23
75°	17	45	145	160	160	18
85°	6	14	36	40	40	6
90°	1	2	7	3	3	1
95°	9	34	112	58	39	10
105°	31	47	189	287	268	33
115°	55	66	152	302	345	54
125°	76	86	138	233	275	68
135°	91	100	134	188	213	70
145°	105	112	132	160	173	66
155°	119	122	132	145	149	55
165°	128	130	132	137	139	36
175°	134	134	133	134	134	13
180°	134	134	134	134	134	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	186.8	186.8	188.0	188.6	189.8	190.4	191.6	192.8	196.4	197.0	198.2
5°	182.0	184.4	192.2	195.2	203.6	215.1	219.8	227.7	243.9	248.6	251.7
7.5°	174.8	180.2	199.4	204.2	225.3	255.3	267.9	284.7	310.5	323.1	333.3
10°	163.4	174.8	209.1	220.4	254.6	300.3	323.7	347.2	386.2	403.6	410.2
12.5°	150.8	169.4	219.3	234.8	284.1	350.8	379.0	404.9	449.3	472.7	476.3
15°	136.4	161.6	228.8	251.7	315.3	392.8	424.0	455.9	497.3	514.1	518.3
17.5°	123.7	155.6	237.9	261.9	339.3	430.6	462.5	488.9	522.5	534.0	536.9
20°	108.2	145.9	243.9	275.1	364.6	458.3	488.9	509.3	532.2	539.3	540.6
22.5°	96.7	135.7	247.5	279.9	381.4	475.1	500.9	517.1	532.7	535.1	535.8
25°	87.1	124.4	246.8	285.3	395.8	485.3	505.1	517.1	526.2	527.3	527.3
27.5°	78.1	111.7	244.4	286.5	406.7	487.7	503.3	511.8	516.0	518.3	518.3
30°	70.3	99.7	238.4	284.1	411.4	485.3	497.9	502.1	506.3	510.0	511.8
32.5°	64.3	88.3	229.5	279.2	412.0	479.3	488.3	490.7	496.7	505.1	508.1
35°	58.8	76.9	219.3	272.7	408.4	469.7	475.7	478.1	490.1	502.7	506.9
37.5°	53.5	68.5	206.0	261.3	403.0	458.3	462.5	466.7	485.3	500.3	505.1
40°	48.1	61.2	190.4	248.6	394.7	444.4	448.1	454.6	479.3	496.7	501.6
42.5°	43.9	55.2	173.6	235.5	383.8	428.9	434.2	443.9	472.1	490.7	496.1
45°	40.2	49.2	155.6	217.4	369.9	412.6	420.4	433.7	463.7	481.7	486.5
47.5°	36.6	45.0	137.0	198.8	355.0	396.4	406.7	421.6	452.3	469.7	473.9
50°	33.7	40.8	118.4	179.0	338.8	379.0	391.0	406.7	437.9	454.1	459.5
52.5°	31.2	37.2	100.9	159.2	320.2	361.0	374.8	391.0	420.4	436.0	439.7
55°	28.8	34.2	85.9	138.1	300.9	341.7	356.8	372.4	401.2	414.4	416.9
57.5°	27.7	31.9	73.2	118.4	280.5	320.2	336.9	351.3	378.4	388.6	391.0
60°	25.8	30.0	63.7	101.5	258.3	299.8	314.2	328.6	351.3	359.7	361.6
62.5°	24.0	28.8	56.5	85.3	235.5	275.7	290.1	303.3	322.5	328.6	330.9
65°	22.8	27.7	51.0	73.2	212.0	250.4	264.8	276.3	291.9	297.9	299.1
67.5°	21.7	26.4	46.8	63.0	188.6	225.3	236.0	246.8	258.8	264.8	265.5
70°	19.8	25.2	43.2	55.9	164.6	196.4	205.4	216.8	226.4	229.5	231.3
72.5°	18.6	23.5	40.8	50.5	139.9	168.8	177.2	183.8	192.2	195.2	195.2
75°	16.8	21.0	38.4	45.0	114.7	138.1	145.3	151.9	158.6	159.7	157.9
77.5°	15.0	18.6	33.0	37.9	89.5	109.3	115.3	118.9	124.4	125.5	126.1
80°	12.6	16.2	25.8	29.5	64.9	80.5	84.7	87.7	92.5	92.5	93.7
82.5°	9.6	12.6	18.6	21.0	43.9	55.2	58.8	60.7	63.7	63.7	63.7
85°	6.0	7.8	12.0	13.8	26.4	33.7	36.1	36.6	39.0	39.7	39.7
87.5°	3.0	4.2	7.8	8.4	13.8	17.5	17.5	18.6	18.6	18.0	17.5
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.7	15.8	17.3	24.4	33.8	38.4	33.7	24.2	17.0	16.3
95°	8.6	19.8	31.0	33.8	59.9	94.7	112.2	100.1	75.9	57.8	55.8
97.5°	14.9	24.7	34.6	37.1	80.7	138.8	167.9	160.3	145.0	133.5	129.6
100°	19.7	28.6	37.6	39.8	88.2	152.7	185.0	185.5	186.7	187.5	182.8
102.5°	23.8	32.1	40.6	42.6	91.7	157.1	189.8	199.6	219.0	233.6	229.6
105°	30.9	38.0	44.9	46.7	94.3	157.6	189.3	211.1	254.7	287.4	285.2
107.5°	38.1	44.6	51.2	52.8	94.7	150.6	178.5	209.0	269.8	315.4	316.0
110°	42.9	48.8	54.7	56.2	94.0	144.4	169.6	203.6	271.5	322.6	324.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.6	53.3	58.9	60.3	94.0	139.0	161.4	196.3	265.8	318.0	321.4
115°	54.8	60.0	65.2	66.5	94.9	132.8	151.7	185.2	252.2	302.4	307.2
117.5°	61.9	66.6	71.4	72.5	96.7	128.8	145.0	175.2	235.6	281.0	286.3
120°	66.0	70.5	74.9	76.0	98.0	127.5	142.2	169.8	225.2	266.6	271.7
122.5°	70.0	74.5	79.0	80.1	100.1	126.8	140.1	165.0	214.8	252.1	257.1
125°	76.2	80.3	84.4	85.5	103.0	126.2	137.9	159.0	201.4	233.0	237.7
127.5°	81.2	85.4	89.5	90.6	105.7	125.9	136.0	154.2	190.5	217.7	221.7
130°	83.9	88.4	92.8	94.0	107.8	126.1	135.3	151.5	183.8	208.1	211.7
132.5°	86.8	91.2	95.7	96.8	109.4	126.2	134.7	149.2	178.1	199.8	203.1
135°	90.9	94.9	99.0	100.0	111.2	126.1	133.6	145.7	169.9	188.1	190.9
137.5°	95.1	99.1	103.1	104.1	113.9	126.9	133.4	143.6	164.1	179.5	181.8
140°	98.6	102.2	106.0	106.9	115.5	127.0	132.8	141.6	159.4	172.6	174.8
142.5°	101.3	104.7	108.1	109.0	116.9	127.5	132.8	140.6	156.1	167.8	169.7
145°	105.4	108.3	111.4	112.1	118.7	127.5	131.9	138.2	150.9	160.5	162.0
147.5°	109.5	112.4	115.3	116.0	121.3	128.4	131.9	136.9	146.9	154.4	155.6
150°	112.2	114.8	117.5	118.1	122.7	128.8	131.9	136.1	144.6	150.9	151.8
152.5°	115.0	116.9	118.9	119.4	123.6	129.1	131.9	135.5	142.7	148.2	148.9
155°	119.1	120.5	122.0	122.4	125.5	129.7	131.9	134.7	140.6	144.9	145.3
157.5°	122.1	123.6	125.0	125.3	127.5	130.4	131.9	134.1	138.6	141.9	142.3
160°	124.2	125.3	126.4	126.7	128.4	130.7	131.9	133.8	137.6	140.5	140.7
162.5°	126.2	127.0	127.9	128.1	129.4	131.1	131.9	133.5	136.7	139.1	139.3
165°	128.5	129.2	130.0	130.2	130.7	131.5	131.9	133.0	135.4	137.1	137.3
167.5°	130.5	130.9	131.3	131.3	131.8	132.4	132.8	133.5	135.0	136.2	136.3
170°	131.9	132.2	132.6	132.7	132.7	132.8	132.8	133.5	135.0	136.2	136.2
172.5°	132.6	132.7	132.8	132.8	132.8	132.8	132.8	133.4	134.6	135.5	135.4
175°	133.6	133.6	133.6	133.6	133.3	133.0	132.8	133.1	133.9	134.5	134.5
177.5°	133.6	133.6	133.6	133.6	133.4	133.1	133.0	133.2	133.8	134.3	134.2
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	186.8	186.8
2.5°	199.4	198.2
5°	256.5	257.7
7.5°	345.3	344.8
10°	429.5	434.9
12.5°	490.7	491.9
15°	528.0	530.4
17.5°	542.4	543.0
20°	543.0	541.8
22.5°	536.4	535.1
25°	528.6	528.0
27.5°	521.3	522.0
30°	518.3	520.2
32.5°	518.3	521.3
35°	519.5	522.5
37.5°	518.9	522.5
40°	516.5	520.7
42.5°	510.0	512.9
45°	499.7	503.3
47.5°	486.5	488.9
50°	469.7	472.1
52.5°	448.6	449.3
55°	423.5	425.8
57.5°	396.4	397.0
60°	366.4	368.2
62.5°	334.6	334.6
65°	300.9	302.1
67.5°	266.1	269.0
70°	230.6	231.3
72.5°	195.8	195.8
75°	159.7	160.4
77.5°	125.5	125.5
80°	93.1	93.7
82.5°	64.3	65.4
85°	40.2	40.2
87.5°	18.6	16.8
90°	3.4	3.4
92.5°	13.6	10.9
95°	47.6	39.4
97.5°	114.0	98.4
100°	164.3	145.7
102.5°	213.6	197.7
105°	276.7	268.1
107.5°	318.0	320.1
110°	333.7	342.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	335.1	348.8
115°	326.3	345.2
117.5°	307.4	328.5
120°	292.2	312.6
122.5°	277.4	297.6
125°	256.3	275.0
127.5°	237.3	253.0
130°	226.2	240.7
132.5°	216.0	229.0
135°	202.2	213.4
137.5°	191.0	200.2
140°	183.3	191.9
142.5°	177.0	184.3
145°	167.5	173.1
147.5°	160.2	164.8
150°	155.6	159.4
152.5°	151.7	154.5
155°	147.2	149.1
157.5°	143.6	145.0
160°	141.5	142.2
162.5°	140.0	140.7
165°	138.1	138.8
167.5°	136.5	136.9
170°	136.2	136.2
172.5°	135.1	134.8
175°	134.5	134.5
177.5°	133.9	133.6
180°	133.6	133.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	3.96	5.00	4.80	5.86	6.94	17.11	18.14	17.94	19.01	20.08
	3H	4.68	5.62	5.53	6.49	7.59	18.94	19.88	19.79	20.75	21.85
	4H	4.99	5.87	5.85	6.75	7.87	19.59	20.47	20.45	21.35	22.46
	6H	5.25	6.07	6.12	6.95	8.08	20.01	20.83	20.89	21.72	22.84
	8H	5.32	6.10	6.20	7.01	8.13	20.13	20.91	21.02	21.82	22.94
	12H	5.35	6.09	6.24	6.99	8.14	20.20	20.94	21.09	21.84	23.00
4H	2H	11.18	12.06	12.04	12.94	14.05	17.40	18.29	18.27	19.17	20.28
	3H	12.76	13.51	13.64	14.42	15.55	19.45	20.19	20.33	21.10	22.23
	4H	12.87	13.54	13.76	14.45	15.61	20.21	20.89	21.10	21.80	22.95
	6H	12.89	13.48	13.79	14.41	15.56	20.75	21.34	21.66	22.27	23.43
	8H	12.87	13.42	13.78	14.34	15.52	20.91	21.46	21.82	22.38	23.56
	12H	12.84	13.33	13.76	14.28	15.45	21.01	21.50	21.93	22.44	23.62
8H	4H	14.32	14.87	15.23	15.79	16.96	20.29	20.84	21.20	21.76	22.94
	6H	14.57	15.02	15.50	15.99	17.16	20.92	21.37	21.85	22.34	23.51
	8H	14.59	14.99	15.53	15.95	17.14	21.13	21.54	22.08	22.49	23.68
	12H	14.57	14.92	15.52	15.87	17.11	21.28	21.63	22.22	22.58	23.82
12H	4H	14.47	14.96	15.40	15.91	17.08	20.25	20.75	21.18	21.69	22.87
	6H	14.83	15.23	15.77	16.19	17.37	20.90	21.31	21.85	22.26	23.45
	8H	14.90	15.26	15.85	16.21	17.45	21.13	21.49	22.08	22.44	23.68